IDR RID Report

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Document DAAC Design Specs.

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Section **Page** **Figure Table**

Category Name Hardware **Actionee** ECS

Sub Category

Subject Undersized disks for DAAC workstations

Description of Problem or Suggestion:

DAAC workstations typically have small disk sizes, some as small as 2GB. This is barely enough to accommodate the system, COTS, and developed software. However, it leaves very little workspace for the personnel using the workstations. V0 experience has shown cramped disk space to be a drain on operational resources, i.e., staff-hours.

Originator's Recommendation

Increase disk size on workstations to allow more working space in tmp and user home directories.

GSFC Response by: **GSFC Response Date**

HAIS Response by: R. Hunter **HAIS Schedule** 11/15/95

HAIS R. E. M. Armstrong **HAIS Response Date** 12/22/95

We agree that DAAC workstation disk capacities need to be increased in some cases. We re-examined DAAC workstation disk sizing estimates for Release A & B and included IR-1 installation and test results data in order to specifically address the following areas of concern:

1) User/Temp workspace
2) Personal development
3) Testing
4) Software upgrades
5) Working with large files/data-sets
6) Future growth/flexibility

We did not increase disk capacities for workstations specified as server class machines as they have already been adequately sized for specific functions/applications and because we believe that there will be fewer operations personnel accessing workstation/servers. We did increase disk capacities for DAAC workstations (see attachment) that operations personnel will access on a more frequent basis (using the above issues of concern as a guideline). At Release B, we assume that workstation disk configurations will be at least as large as the revised estimates (see attachment). Note that the disk configurations were sized using Release B software estimates.
The workstation disk configuration (see attachment) capacity changes apply to 11 workstations and show how existing and additional storage was estimated. Changes to existing DAAC workstation disk capacities appear in BOLD type in the attachment.

Proposed Workstation Disk Configuration (Model = GSFC):

NOTE: The wokstation disk configuration will provide at least the disk space indicated below, but may be greater depending on specific product availability and cost. Changes to existing Release A workstation disk capacities appear in BOLD type.

1) 3 Data Management Data Specialists / User Support workstations (SUN SPARC20/50)

64 MB memory
2GB internal disk: SUN Solaris & swap plus Sparcworks, C, C++, Zmail and utilities = 1GB
1GB for updating SW, public domain SW, etc.
4GB disk: ECS Client Software = 1GB (includes map data)
ECS Data Dictionary Maintenance Tool = 10MB
3GB for user workspace, updates to SW, working with large files/data-sets in support of users and the Data Management Server.

2) 1 Data Management Database Administration workstation (HP 715/64)

64 MB memory
2GB internal disk: HP-UX & swap plus Softbench, C, C++, Zmail and utilities = 1GB
1GB for updating SW, public domain SW, etc.
4GB disk: ECS Client Software = 1GB (includes map data)
Sybase Client (ISQL, SQR & LIBS) = 10MB
3GB for user workspace, updates to SW, working with large files/data-sets in support of the Data Management Server.

3) 2 Data Server ACM ops workstations (SUN SPARC20/50)

64 MB memory
2GB internal disk: SUN Solaris & swap plus Sparcworks, C, C++, Zmail and utilities = 1GB
1GB for updating SW, public domain SW, etc.
2GB disk: 2GB for user workspace, updates to SW, working with large files/data-sets in support of APC servers.

4) 1 MSS workstation (SUN SPARC20/50)

64 MB memory
2GB internal disk: SUN Solaris & swap plus Sparcworks, C, C++, SoftPC/MSOffice, Zmail and utilities = 1GB
1GB for Training Management SW, updating SW, public domain SW, etc.
2GB disk: 2GB for user workspace, updates to SW, and Training Management in support of the MSS, CSS Servers.

5) 1 Planning workstation (SUN SPARC20/50)

64 MB memory
2GB internal disk: SUN Solaris & swap plus Sparcworks, C, C++, Zmail and utilities = 1GB
1GB for Planning Workbench, updating SW, public domain SW, etc.
2GB disk: 2GB for user workspace, updates to SW, working with large files in support of the Planning Server.

6) 1 AIT workstation (SUN SPARC20/50)

64 MB memory
2GB internal disk: SUN Solaris & swap plus Sparcworks, C, C++, F77, F90, IDL, IMSL, SoftPC/MSOffice, Autosys Event Processor and Forcheck = 1.5 GB
500MB for updating SW, public domain SW, etc.
4GB disk: 4GB for user workspace, updates to SW, working with large files/data-sets in support of AIT operations.

7) 2 AQA graphics workstations (Platform has yet to be decided).

NOTE: These are preliminary estimates (actual disk allocations will probably be higher based on

Release A configuration):

64 MB memory
2GB internal disk: Operating system & swap plus C, C++, IDL, IMSL = 1GB
1GB for updating SW, public domain SW, etc.
4GB disk: 4GB for user workspace, updates to SW, working with large files/data-sets in support of AQA operations.

Status **Closed** **Date Closed** **1/25/96** **Sponsor** **Marinelli**

****** **Attachment if any** ******